Bryan D Vogt

List of Publications by Year
in descending order

207	6,489	66234	95083
papers	citations	42 h-index	68 g-index

208	208	208	8506
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elastic Moduli of Ultrathin Amorphous Polymer Films. Macromolecules, 2006, 39, 5095-5099.	2.2	389
2	Effect of Film Thickness on the Validity of the Sauerbrey Equation for Hydrated Polyelectrolyte Films. Journal of Physical Chemistry B, 2004, 108, 12685-12690.	1.2	223
3	Ultra-long cycle life, low-cost room temperature sodium-sulfur batteries enabled by highly doped (N,S) nanoporous carbons. Nano Energy, 2017, 32, 59-66.	8.2	178
4	Elastic Modulus of Amorphous Polymer Thin Films: Relationship to the Glass Transition Temperature. ACS Nano, 2009, 3, 2677-2685.	7.3	163
5	A nitrogen doped carbonized metalâ€“organic framework for high stability room temperature sodiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 12471-12478.	5.2	153
6	Tuning Cell Adhesion on Gradient Poly(2-hydroxyethyl methacrylate)-Grafted Surfaces. Langmuir, 2005, 21, 12309-12314.	1.6	135
7	Moisture Absorption and Absorption Kinetics in Polyelectrolyte Films:â€‰ Influence of Film Thickness. Langmuir, 2004, 20, 1453-1458.	1.6	132
8	Why is Recycling of Postconsumer Plastics so Challenging?. ACS Applied Polymer Materials, 2021, 3, 4325-4346.	2.0	120
9	A binary metal organic framework derived hierarchical hollow Ni₃S₂/Co₉S₈/N-doped carbon composite with superior sodium storage performance. Journal of Materials Chemistry A, 2017, 5, 11781-11787.	5.2	110
10	Moisture absorption into ultrathin hydrophilic polymer films on different substrate surfaces. Polymer, 2005, 46, 1635-1642.	1.8	104
11	Electrically and thermally conductive nylon 6,6. Polymer Composites, 1999, 20, 643-654.	2.3	101
12	Gradient Solvent Vapor Annealing of Block Copolymer Thin Films Using a Microfluidic Mixing Device. Nano Letters, 2011, 11, 1351-1357.	4.5	93
13	Ordered Mesoporous Carbon Composite Films Containing Cobalt Oxide and Vanadia for Electrochemical Applications. Chemistry of Materials, 2011, 23, 2869-2878.	3.2	92
14	High performance bulk-heterojunction organic solar cells fabricated with non-halogenated solvent processing. Organic Electronics, 2011, 12, 1465-1470.	1.4	91
15	Challenges in Fabrication of Mesoporous Carbon Films with Ordered Cylindrical Pores via Phenolic Oligomer Self-Assembly with Triblock Copolymers. ACS Nano, 2010, 4, 189-198.	7.3	90
16	Influence of a Water Rinse on the Structure and Properties of Poly(3,4-ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (dioxythio	1.6	78
17	Influence of Chain Stiffness on Thermal and Mechanical Properties of Polymer Thin Films. Macromolecules, 2011, 44, 9040-9045.	2.2	77
18	Fabrication of Porous Carbon/TiO₂ Composites through Polymerization-Induced Phase Separation and Use As an Anode for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21011-21018.	4.0	77

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19	Unidirectional Alignment of Block Copolymer Films Induced by Expansion of a Permeable Elastomer during Solvent Vapor Annealing. Macromolecules, 2014, 47, 1109-1116.	2.2	76
20	Interfacial Effects on Moisture Absorption in Thin Polymer Films. Langmuir, 2004, 20, 5285-5290.	1.6	74
21	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. Acta Biomaterialia, 2016, 40, 62-69.	4.1	74
22	Generalized Synthesis of a Family of Highly Heteroatom-Doped Ordered Mesoporous Carbons. Chemistry of Materials, 2017, 29, 10178-10186.	3.2	74
23	Impact of molecular mass on the elastic modulus of thin polystyrene films. Polymer, 2010, 51, 4211-4217.	1.8	70
24	Complex flow and temperature history during melt extrusion in material extrusion additive manufacturing. Additive Manufacturing, 2018, 22, 197-206.	1.7	69
25	Quantitative Rheometry of Thin Soft Materials Using the Quartz Crystal Microbalance with Dissipation. Analytical Chemistry, 2018, 90, 4079-4088.	3.2	65
26	Mechanical and viscoelastic properties of confined amorphous polymers. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 9-30.	2.4	64
27	Effect of Surface Properties on Wrinkling of Ultrathin Films. Journal of Aerospace Engineering, 2007, 20, 38-44.	0.8	63
28	Effects of humidity on unencapsulated poly(thiophene) thin-film transistors. Applied Physics Letters, 2006, 88, 113514.	1.5	61
29	A generalized method for alignment of block copolymer films: solvent vapor annealing with soft shear. Soft Matter, 2014, 10, 6068-6076.	1.2	58
30	3D Printing with Coreâ€“Shell Filaments Containing High or Low Density Polyethylene Shells. ACS Applied Polymer Materials, 2019, 1, 275-285.	2.0	58
31	Three-Dimensional Printed Shape Memory Objects Based on an Olefin Ionomer of Zinc-Neutralized Poly(ethylene-co-methacrylic acid). ACS Applied Materials & Interfaces, 2017, 9, 27239-27249.	4.0	58
32	Rapid adsorption of alcohol biofuels by high surface area mesoporous carbons. Microporous and Mesoporous Materials, 2012, 148, 107-114.	2.2	56
33	Robust conductive mesoporous carbonâ€“silica composite films with highly ordered and oriented orthorhombic structures from triblock-copolymer template co-assembly. Journal of Materials Chemistry, 2010, 20, 1691.	6.7	55
34	A high-performance lithium-ion capacitor with carbonized NiCo2O4 anode and vertically-aligned carbon nanoflakes cathode. Energy Storage Materials, 2019, 22, 265-274.	9.5	55
35	Simple replica micromolding of biocompatible styrenic elastomers. Lab on A Chip, 2013, 13, 2773.	3.1	54
36	Understanding the Decreased Segmental Dynamics of Supported Thin Polymer Films Reported by Incoherent Neutron Scattering. Macromolecules, 2015, 48, 801-808.	2.2	53

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37	Phase Behavior of Polystyrene-block-poly(n-alkyl methacrylate)s Dilated with Carbon Dioxide. Macromolecules, 2003, 36, 4029-4036.	2.2	50
38	Direct Immersion Annealing of Thin Block Copolymer Films. ACS Applied Materials & Interfaces, 2015, 7, 21639-21645.	4.0	48
39	Control of Threshold Voltage and Saturation Mobility Using Dual-Active-Layer Device Based on Amorphous Mixed Metalâ€“Oxideâ€“Semiconductor on Flexible Plastic Substrates. IEEE Transactions on Electron Devices, 2011, 58, 3428-3434.	1.6	47
40	Control of Mesh Size and Modulus by Kinetically Dependent Crossâ€Linking in Hydrogels. Advanced Materials, 2015, 27, 6283-6288.	11.1	47
41	Examination of the influence of cooperative segmental dynamics on the glass transition and coefficient of thermal expansion in thin films probed using poly(n-alkyl methacrylate)s. Polymer, 2007, 48, 7169-7175.	1.8	46
42	Li-Ion Capacitor Integrated with Nano-network-Structured Ni/NiO/C Anode and Nitrogen-Doped Carbonized Metalâ€“Organic Framework Cathode with High Power and Long Cyclability. ACS Applied Materials & Interfaces, 2019, 11, 30694-30702.	4.0	46
43	Characterization of Ordered Mesoporous Silica Films Using Small-Angle Neutron Scattering and X-ray Porosimetry. Chemistry of Materials, 2005, 17, 1398-1408.	3.2	44
44	Large-Scale Roll-to-Roll Fabrication of Ordered Mesoporous Materials using Resol-Assisted Cooperative Assembly. ACS Applied Materials & Interfaces, 2015, 7, 4306-4310.	4.0	43
45	Operando Grazing Incidence Small-Angle X-ray Scattering/X-ray Diffraction of Model Ordered Mesoporous Lithium-Ion Battery Anodes. ACS Nano, 2017, 11, 1443-1454.	7.3	42
46	Enhanced Impact Resistance of Three-Dimensional-Printed Parts with Structured Filaments. ACS Applied Materials & Interfaces, 2018, 10, 16087-16094.	4.0	41
47	Flexible thick-film electrochemical sensors: Impact of mechanical bending and stress on the electrochemical behavior. Sensors and Actuators B: Chemical, 2009, 137, 379-385.	4.0	40
48	Cooperatively assembled, nitrogen-doped, ordered mesoporous carbon/iron oxide nanocomposites for low-cost, long cycle life sodium-ion batteries. Carbon, 2017, 116, 286-293.	5.4	40
49	Impact of chain architecture (branching) on the thermal and mechanical behavior of polystyrene thin films. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 370-377.	2.4	39
50	Antifreeze Hydrogels from Amphiphilic Statistical Copolymers. Chemistry of Materials, 2019, 31, 135-145.	3.2	39
51	Effect of copolymer composition on acid-catalyzed deprotection reaction kinetics in model photoresists. Polymer, 2006, 47, 6293-6302.	1.8	38
52	Manipulation of the Elastic Modulus of Polymers at the Nanoscale: Influence of UVâ^'Ozone Cross-Linking and Plasticizer. ACS Nano, 2010, 4, 5357-5365.	7.3	37
53	Large-Scale Solvent Driven Actuation of Polyelectrolyte Multilayers Based on Modulation of Dynamic Secondary Interactions. ACS Applied Materials & Interfaces, 2015, 7, 1848-1858.	4.0	37
54	Partitioning of Small Molecules in Hydrogen-Bonding Complex Coacervates of Poly(acrylic acid) and Poly(ethylene glycol) or Pluronic Block Copolymer. Macromolecules, 2017, 50, 3818-3830.	2.2	37

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55	Photoinitator surface segregation induced instabilities from polymerization of a liquid coating on a rigid substrate. Soft Matter, 2012, 8, 5225.	1.2	36
56	Hierarchical Electrospun and Cooperatively Assembled Nanoporous Ni/NiO/MnO_x/Carbon Nanofiber Composites for Lithium Ion Battery Anodes. ACS Applied Materials & Interfaces, 2016, 8, 19484-19493.	4.0	36
57	On the Origins of Sudden Adhesion Loss at a Critical Relative Humidity: Examination of Bulk and Interfacial Contributions. Langmuir, 2008, 24, 9189-9193.	1.6	35
58	Roll-to-roll fabrication of high surface area mesoporous carbon with process-tunable pore texture for optimization of adsorption capacity of bulky organic dyes. Microporous and Mesoporous Materials, 2016, 227, 57-64.	2.2	34
59	Direct Measurement of the Counterion Distribution within Swollen Polyelectrolyte Films. Langmuir, 2005, 21, 6647-6651.	1.6	33
60	ÂMeasurements of the Reactionâ^'Diffusion Front of Model Chemically Amplified Photoresists with Varying Photoacid Sizeâ€–. Macromolecules, 2006, 39, 8311-8317.	2.2	32
61	Tough Stretchable Physically-Cross-linked Electrospun Hydrogel Fiber Mats. ACS Applied Materials & Interfaces, 2016, 8, 22774-22779.	4.0	32
62	X-ray and neutron reflectivity measurements of moisture transport through model multilayered barrier films for flexible displays. Journal of Applied Physics, 2005, 97, 114509.	1.1	31
63	Phase Behavior of Nearly Symmetric Polystyrene-block-polyisoprene Copolymers in the Presence of CO2 and Ethane. Macromolecules, 1999, 32, 7907-7912.	2.2	29
64	Circuit-Level Impact of a-Si:H Thin-Film-Transistor Degradation Effects. IEEE Transactions on Electron Devices, 2009, , .	1.6	29
65	Supramolecular Hydrophobic Aggregates in Hydrogels Partially Inhibit Ice Formation. Journal of Physical Chemistry B, 2016, 120, 5543-5552.	1.2	29
66	Enhanced Cycle Performance of Quinone-Based Anodes for Sodium Ion Batteries by Attachment to Ordered Mesoporous Carbon and Use of Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2017, 164, H5093-H5099.	1.3	29
67	4D printed shape memory metamaterial for vibration bandgap switching and active elastic-wave guiding. Journal of Materials Chemistry C, 2021, 9, 1164-1173.	2.7	29
68	Resolution limitations in chemically amplified photoresist systems. , 2004, 5376, 333.		28
69	Atomistic-based continuum constitutive relation for microtubules: elastic modulus prediction. Computational Mechanics, 2008, 42, 607-618.	2.2	28
70	Temporary bond-debond process for manufacture of flexible electronics: Impact of adhesive and carrier properties on performance. Journal of Applied Physics, 2010, 108, .	1.1	27
71	Slip-stick wetting and large contact angle hysteresis on wrinkled surfaces. Journal of Colloid and Interface Science, 2011, 354, 825-831.	5.0	27
72	High capacity magnetic mesoporous carbonâ€“cobalt composite adsorbents for removal of methylene green from aqueous solutions. Journal of Colloid and Interface Science, 2012, 387, 127-134.	5.0	27

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73	Anisotropic Mechanical Properties of Aligned Polystyrene-block-polydimethylsiloxane Thin Films. Macromolecules, 2013, 46, 8608-8615.	2.2	27
74	Unidirectional self-assembly of soft templated mesoporous carbons by zone annealing. Nanoscale, 2013, 5, 7928.	2.8	27
75	Kinetics of UV Irradiation Induced Chain Scission and Cross-Linking of Coumarin-Containing Polyester Ultrathin Films. Macromolecules, 2014, 47, 2891-2898.	2.2	27
76	Nanostructure Evolution during Relaxation from a Large Step Strain in a Supramolecular Copolymer-Based Hydrogel: A SANS Investigation. Macromolecules, 2017, 50, 1672-1680.	2.2	27
77	Influence of base additives on the reaction-diffusion front of model chemically amplified photoresists. Journal of Vacuum Science & Technology B, 2007, 25, 175.	1.3	26
78	Impact of Film Thickness on the Morphology of Mesoporous Carbon Films Using Organicâ˜Organic Self-Assembly. Langmuir, 2011, 27, 5607-5615.	1.6	26
79	Amperometric sensing of norepinephrine at picomolar concentrations using screen printed, high surface area mesoporous carbon. Analytica Chimica Acta, 2013, 788, 32-38.	2.6	26
80	Self-assembled Mn3O4/C nanospheres as high-performance anode materials for lithium ion batteries. Journal of Power Sources, 2018, 395, 92-97.	4.0	26
81	Control of Moisture at Buried Polymer/Alumina Interfaces through Substrate Surface Modification. Langmuir, 2005, 21, 2460-2464.	1.6	25
82	Role of Amphiphilic Block Copolymer Composition on Pore Characteristics of Micelle-Templated Mesoporous Cobalt Oxide Films. Langmuir, 2016, 32, 4077-4085.	1.6	24
83	Effect of Deprotection Extent on Swelling and Dissolution Regimes of Thin Polymer Films. Langmuir, 2006, 22, 10009-10015.	1.6	23
84	Morphology Control in Mesoporous Carbon Films Using Solvent Vapor Annealing. Langmuir, 2013, 29, 3428-3438.	1.6	23
85	Tuning SEI formation on nanoporous carbonâ€“titania composite sodium ion batteries anodes and performance with subtle processing changes. RSC Advances, 2015, 5, 99329-99338.	1.7	23
86	Mechanisms of criticality in environmental adhesion loss. Soft Matter, 2015, 11, 3994-4001.	1.2	23
87	High rate sodium ion battery anodes from block copolymer templated mesoporous nickelâ€“cobalt carbonates and oxides. Journal of Materials Chemistry A, 2015, 3, 21060-21069.	5.2	23
88	Highly aligned, large pore ordered mesoporous carbon films by solvent vapor annealing with soft shear. Carbon, 2015, 82, 51-59.	5.4	23
89	Swelling and plasticization of polymeric binders by Li-containing carbonate electrolytes using quartz crystal microbalance with dissipation. Polymer, 2018, 143, 237-244.	1.8	23
90	Thickness dependence of the elastic modulus of tris(8-hydroxyquinolinato)aluminium. Soft Matter, 2010, 6, 5783.	1.2	21

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91	Facile control of long range orientation in mesoporous carbon films with thermal zone annealing velocity. Nanoscale, 2013, 5, 12440.	2.8	21
92	Overcoming confinement limited swelling in hydrogel thin films using supramolecular interactions. Soft Matter, 2014, 10, 6705-6712.	1.2	21
93	Bicontinuous mesoporous carbon thin films via an orderâ€“order transition. Chemical Communications, 2014, 50, 12684-12687.	2.2	21
94	Modulation of the Mechanical Properties of Hydrophobically Modified Supramolecular Hydrogels by Surfactant-Driven Structural Rearrangement. Macromolecules, 2016, 49, 9228-9238.	2.2	21
95	Impact of lowâ€molecular mass components (oligomers) on the glass transition in thin films of poly(methyl methacrylate). Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2366-2370.	2.4	20
96	Mesoporous carbon amperometric glucose sensors using inexpensive, commercial methacrylate-based binders. Analytica Chimica Acta, 2012, 738, 27-34.	2.6	20
97	Control of Ordering and Structure in Soft Templated Mesoporous Carbon Films by Use of Selective Solvent Additives. Langmuir, 2013, 29, 8703-8712.	1.6	20
98	Enhanced stability of smoothly electrodeposited amorphous Fe₂O₃@electrospun carbon nanofibers as self-standing anodes for lithium ion batteries. New Journal of Chemistry, 2018, 42, 1867-1878.	1.4	20
99	Characterization of Compositional Heterogeneity in Chemically Amplified Photoresist Polymer Thin Films with Infrared Spectroscopy. Macromolecules, 2007, 40, 1497-1503.	2.2	19
100	Impact of thickness on CO2 concentration profiles within polymer films swollen near the critical pressure. Polymer, 2009, 50, 4182-4188.	1.8	19
101	Nanoporous Nonwoven Fibril-Like Morphology by Cooperative Self-Assembly of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.6	19
102	High Efficiency and Facile Butanol Recovery with Magnetically Responsive Micro/Mesoporous Carbon Adsorbents. ACS Sustainable Chemistry and Engineering, 2017, 5, 885-894.	3.2	19
103	Bimodal Porous Carbon-Silica Nanocomposites for Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 16702-16709.	1.5	19
104	Correlating Interfacial Moisture Content and Adhesive Fracture Energy of Polymer Coatings on Different Surfaces. Advanced Engineering Materials, 2006, 8, 114-118.	1.6	18
105	Tuning Mechanical Properties of Mesoporous Silicas Using Associating Homopolymers/Block Copolymer Blends as Templates. Journal of Physical Chemistry C, 2008, 112, 53-60.	1.5	18
106	Stabilizing Surfactant Templated Cylindrical Mesopores in Polymer and Carbon Films through Composite Formation with Silica Reinforcement. Journal of Physical Chemistry C, 2010, 114, 9618-9626.	1.5	18
107	Relationship between crosslinking and ordering kinetics for the fabrication of soft templated (FDU-16) mesoporous carbon thin films. RSC Advances, 2014, 4, 44858-44867.	1.7	18
108	Impact of nanopore morphology on cell viability on mesoporous polymer and carbon surfaces. Acta Biomaterialia, 2010, 6, 3035-3043.	4.1	17

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109	Thickness dependent modulus of vacuum deposited organic molecular glasses for organic electronics applications. Soft Matter, 2011, 7, 7269.	1.2	17
110	Evolution of mechanical, optical and electrical properties of self-assembled mesostructured phenolic resins during carbonization. Microporous and Mesoporous Materials, 2011, 138, 86-93.	2.2	17
111	Impact of Homopolymer Pore Expander on the Morphology of Mesoporous Carbon Films Using Organicâ€“Organic Self-Assembly. Journal of Physical Chemistry C, 2012, 116, 6038-6046.	1.5	17
112	Extending Dynamic Range of Block Copolymer Ordering with Rotational Cold Zone Annealing (RCZA) and Ionic Liquids. Macromolecules, 2015, 48, 7567-7573.	2.2	17
113	Contraction of weak polyelectrolyte multilayers in response to organic solvents. Soft Matter, 2016, 12, 1859-1867.	1.2	17
114	Renewable Nanocomposites for Additive Manufacturing Using Fused Filament Fabrication. ACS Sustainable Chemistry and Engineering, 2018, 6, 12393-12402.	3.2	17
115	Control of Pore Size in Ordered Mesoporous Carbon-Silica by Hansen Solubility Parameters of Swelling Agent. Langmuir, 2019, 35, 14049-14059.	1.6	17
116	Polyelectrolyteâ€“micelle coacervates: intrapolymer-dominant vs. interpolymer-dominant association, solute uptake and rheological properties. Soft Matter, 2019, 15, 3043-3054.	1.2	17
117	Carbon Dioxide Mediated Synthesis of Mesoporous Silica Films: Tuning Properties using Pressure. Chemistry of Materials, 2008, 20, 3229-3238.	3.2	16
118	Fundamentals of Adhesion Failure for a Model Adhesive (PMMA/Glass) Joint in Humid Environments. Journal of Adhesion, 2008, 84, 339-367.	1.8	16
119	Impact of polymer modulus/chain mobility on water accumulation at polymer/metal oxide interfaces. Polymer, 2009, 50, 3234-3239.	1.8	16
120	Structural rearrangement and stiffening of hydrophobically modified supramolecular hydrogels during thermal annealing. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1036-1044.	2.4	16
121	Ultrafast microwave-assisted synthesis of highly nitrogen-doped ordered mesoporous carbon. Microporous and Mesoporous Materials, 2021, 310, 110639.	2.2	16
122	Size and print path effects on mechanical properties of material extrusion 3D printed plastics. Progress in Additive Manufacturing, 2022, 7, 1009-1021.	2.5	16
123	Slow release kinetics of mitoxantrone from ordered mesoporous carbon films. Microporous and Mesoporous Materials, 2012, 160, 143-150.	2.2	15
124	Mesoporous Carbonâ€“Vanadium Oxide Films by Resol-Assisted, Triblock Copolymer-Templated Cooperative Self-Assembly. ACS Applied Materials & Interfaces, 2014, 6, 19288-19298.	4.0	15
125	Rapid (<3 min) microwave synthesis of block copolymer templated ordered mesoporous metal oxide and carbonate films using nitrateâ€“citric acid systems. Chemical Communications, 2015, 51, 4997-5000.	2.2	15
126	Strain rate dependent nanostructure of hydrogels with reversible hydrophobic associations during uniaxial extension. Soft Matter, 2019, 15, 227-236.	1.2	15

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127	Specular X-ray Reflectivity and Small Angle Neutron Scattering for Structure Determination of Ordered Mesoporous Dielectric Films. Journal of Physical Chemistry B, 2005, 109, 18445-18450.	1.2	14
128	Accelerated Amidization of Branched Poly(ethylenimine)/Poly(acrylic acid) Multilayer Films by Microwave Heating. Langmuir, 2016, 32, 9118-9125.	1.6	14
129	Solid state microwave synthesis of highly crystalline ordered mesoporous hausmannite Mn₃O₄films. CrystEngComm, 2017, 19, 4294-4303.	1.3	14
130	Manipulating the Mechanical Response of Hydrophobically Cross-Linked Hydrogels with Ionic Associations. Macromolecules, 2019, 52, 6055-6067.	2.2	14
131	Enhanced Dimensional Accuracy of Material Extrusion 3D-Printed Plastics through Filament Architecture. ACS Applied Polymer Materials, 2021, 3, 2518-2528.	2.0	14
132	Tuning Stability of Mesoporous Silica Films under Biologically Relevant Conditions through Processing with Supercritical CO₂. Langmuir, 2008, 24, 11935-11941.	1.6	13
133	Substrate Temperature to Control Moduli and Water Uptake in Thin Films of Vapor Deposited N,Nâ€²-Di(1-naphthyl)-N,Nâ€²-diphenyl-(1,1â€²-biphenyl)-4,4â€²-diamine (NPD). Journal of Physical Chemistry B, 2015, 119, 11928-11934.	1.2	13
134	Sulfur Diffusion within Nitrogen-Doped Ordered Mesoporous Carbons Determined by in Situ X-ray Scattering. Langmuir, 2018, 34, 8767-8776.	1.6	13
135	Tunable Piezoresistivity from Magnetically Aligned Ni(Core)@Ag(Shell) Particles in an Elastomer Matrix. ACS Applied Materials & Interfaces, 2019, 11, 20360-20369.	4.0	13
136	A Virtual Special Issue on Self-Healing Materials. ACS Applied Materials & Interfaces, 2020, 12, 49277-49280.	4.0	13
137	Water immersion of model photoresists: interfacial influences on water concentration and surface morphology. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2005, 4, 013003.	1.0	12
138	Impact of Nanostructure on Mechanical Properties of Norbornene-based Block Copolymers under Simulated Operating Conditions for Biobutanol Membranes. ACS Applied Materials & Interfaces, 2015, 7, 11765-11774.	4.0	12
139	Evolution in surface morphology during rapid microwave annealing of PS â€•b â€•PMMA thin films. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1499-1506.	2.4	12
140	Transport-Limited Adsorption of Plasma Proteins on Bimodal Amphiphilic Polymer Co-Networks: Real-Time Studies by Spectroscopic Ellipsometry. Langmuir, 2017, 33, 2900-2910.	1.6	12
141	Impact of surface wettability on dynamics of supercooled water confined in nitrogen-doped ordered mesoporous carbon. Physical Chemistry Chemical Physics, 2018, 20, 28019-28025.	1.3	12
142	Thickness Limit for Alignment of Block Copolymer Films Using Solvent Vapor Annealing with Shear. Macromolecules, 2018, 51, 4213-4219.	2.2	12
143	Tuning Flexoelectric Effect in Polymer Electrolyte Membranes via Cation Selection for Potential Energy Harvesting Applications. ACS Applied Energy Materials, 2020, 3, 328-335.	2.5	12
144	Comparison of flocculated and dispersed singleâ€wall carbon nanotubeâ€based coatings using nonionic surfactants. Polymer Engineering and Science, 2013, 53, 69-77.	1.5	11

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145	Facile nonâ€lithographic route to highly aligned silica nanopatterns using unidirectionally aligned polystyreneâ€blockâ€polydimethylsiloxane films. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1058-1064.	2.4	11
146	Cooperative Assembly of Metal Nitrate and Citric Acid with Block Copolymers: Role of Carbonate Conversion Temperature on the Mesostructure of Ordered Porous Oxides. Journal of Physical Chemistry C, 2015, 119, 12138-12148.	1.5	11
147	Mechanically tunable, human mesenchymal stem cell viable poly(ethylene glycol)â€“oxime hydrogels with invariant precursor composition, concentration, and stoichiometry. Materials Today Chemistry, 2019, 11, 244-252.	1.7	11
148	Mechanisms of Directional Polymer Crystallization. ACS Macro Letters, 2020, 9, 1007-1012.	2.3	11
149	Scaling of Interdomain Spacing of Diblock Copolymers in a Selective Diluent. Macromolecules, 2007, 40, 2515-2519.	2.2	10
150	A family of mechanically adaptive supramolecular graphene oxide/poly(ethylenimine) hydrogels from aqueous assembly. Soft Matter, 2017, 13, 1161-1170.	1.2	10
151	Anomalous Confinement Slows Surface Fluctuations of Star Polymer Melt Films. ACS Macro Letters, 2018, 7, 834-839.	2.3	10
152	Influence of Sodium Salts on the Swelling and Rheology of Hydrophobically Cross-linked Hydrogels Determined by QCM-D. Langmuir, 2019, 35, 16612-16623.	1.6	10
153	Phase Behavior of Diblock Copolymers Dilated with Light Alkanes:Â Influence of Solvent Compressibility on Upper and Lower Ordering Transitions. Macromolecules, 2002, 35, 4056-4063.	2.2	9
154	Gaussian Process Monitoring of Layerwise-Dependent Imaging Data. IEEE Robotics and Automation Letters, 2021, 6, 8029-8036.	3.3	9
155	Exposure dose effects on the reaction-diffusion process in model extreme ultraviolet photoresists. Journal of Vacuum Science & Technology B, 2006, 24, 3044.	1.3	8
156	Impact of adhesive rheology on stress-distortion of bonded plastic substrates for flexible electronics applications. Microelectronic Engineering, 2011, 88, 2852-2856.	1.1	8
157	Tunable Wrinkle and Crease Surface Morphologies from Photoinitiated Polymerization of Furfuryl Alcohol. Langmuir, 2013, 29, 15083-15089.	1.6	8
158	Mechanical properties of bulk graphene oxide/poly(acrylic acid)/poly(ethylenimine) ternary polyelectrolyte complex. Soft Matter, 2018, 14, 4396-4403.	1.2	8
159	Morphological control of hydrothermally synthesized cobalt oxide particles using poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	EO	8
160	Controlling nanostructure and mechanical properties in triblock copolymer/monomer blends via reaction-induced phase transitions. Soft Matter, 2021, 17, 1505-1512.	1.2	8
161	Long Range Concentration Gradients at the Free Surface of Polymer Films Swollen by Carbon Dioxide. Macromolecules, 2008, 41, 9306-9311.	2.2	7
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